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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/687,436	10/13/2000	Alan H. Karp	10992795	8480
7590 12/17/2004			EXAMINER	
HEWLETT-PACKARD COMPANY			VO, LILIAN	
Intellectual Prop P. O. Box 2724	perty Administration 00		ART UNIT	PAPER NUMBER
fort Collins, CO 80527-2400			2127	

DATE MAILED: 12/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/687,436	KARP ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lilian Vo	2127				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	1 the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, if NO period for reply is specified above, the maximum statutory provided in the second period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a rej n. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT statute. cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	21 September 2004.					
·						
Disposition of Claims						
4) ⊠ Claim(s) <u>1 - 26</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1, 2, 5 - 15, 18, 19, 22 - 24</u> is/are 7) ⊠ Claim(s) <u>3,4,16,17,20,21,25 and 26</u> is/are 8) □ Claim(s) are subject to restriction a	ndrawn from consideration. rejected. objected to.					
Application Papers						
9) The specification is objected to by the Exa						
10)☐ The drawing(s) filed on is/are: a)☐						
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the \propto 11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Book * See the attached detailed Office action for a	ments have been received. ments have been received in Aperiority documents have been ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	8) Paper No(s	ummary (PTO-413))/Mail Date vformal Patent Application (PTO-152) 				

DETAILED ACTION

1. Claims 1 - 26 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 5, 7, 9, 11 15, 18, 19 and 22 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stephen Mounsey ("Disk Quotas", University of Cambridge, Dept. of Engineer, October 9, 1997, hereinafter Mounsey) in view of Kyler et al. (US 6,092,163, hereinafter Kyler).
- 1. Regarding **claim 1**, Mounsey discloses a method for flexible allocation of a resource, comprising the steps of:

associating a soft limit and a hard limit to a potential user of the resource wherein the soft limit guarantees access to the resource by the potential user and the hard limit enables the potential user to exceed the soft limit on a first-come-first-served basis (1st paragraph);

obtaining a request for allocation of a portion of the resource for the potential user (1st paragraph);

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granting the request if the request if allowed would not exceed the soft limit of the potential user (1st paragraph: default initial limit);

denying the request if the request if allowed would exceed the hard limit of the potential user (1st paragraph: Exceeding the hard limit results in immediate failure of all further file creation or expansion).

Mounsey did not clearly disclose the step denying the request if the request if allowed would cause a grand total allocation of the resource for plural users to exceed a high watermark assigned to the resource and granting the request otherwise. Nevertheless, Kyler discloses the implementation of disk space quotas in which quotas limit on disk space taken up by files in the file system are established for users and directories, and an internal database is established to track quotas against actual disk space utilization (fig. 2, col. 3, lines 31 – 50, col. 2, lines 6 – 46). It would have been obvious for one of an ordinary skill in the art, at the time the invention was made, to incorporate Kyler's teaching together with Mounsey to ensure that there will always be adequate space available for system operations.

- 2. Regarding **claim 2**, as modified Mounsey discloses the step of entering a reduction mode for handling a subsequent request for allocation of the resource (Mounsey, 1st paragraph: Exceeding the hard limit results in immediate failure of all further file creation or expansion until usage has been reduced to an acceptable level).
- 3. Regarding claim 5, as modified Mounsey discloses the step of assigning the soft limit to the potential user (Mounsey, page 1: disk usage (soft): 10 mb).

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4. Regarding claim 7, as modified Mounsey discloses the step of assigning the hard limit to the potential user (Mounsey, page 1: disk usage (hard): 11 mb).

- 5. Regarding claim 9, as modified Mounsey discloses the step of assigning the high watermark to the resource (Kyler, col. 2, lines 6-38: quota information).
- 6. Claims 11 15, 18, 19 and 22 24 are rejected on the same ground as stated in claims 1, 2 and 5 above.
- 4. Claims 6, 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stephen Mounsey ("Disk Quotas", University of Cambridge, Dept. of Engineer, October 9, 1997, hereinafter Mounsey) in view of Kyler et al. (US 6,092,163, hereinafter Kyler), as applied to claim 1 above, and in view of Harris et al. (US 6,438,704, hereinafter Harris).
- Regarding claims 6 and 8, Mounsey and Kyler did not clear disclose the additional limitation as claimed. Nevertheless, Harris discloses the step of assigning the soft limit and/or hard limit in response to a class associated with the potential user (col. 4, line 45 col. 5, line 32, col. 6, line 18 43, fig. 1, 2, 3a, 3c). It would have been obvious for one of an ordinary skill in the art, at the time the invention was made, to incorporate Harris's teaching with the combination of Mounsey and Kyler so that resource can be assigned for utilization accordingly.

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8. Regarding **claim 10**, as modified Mounsey discloses the step of allocating a portion of the resource for system use (Harris: col. 2, lines 39 – 67, fig. 1 and 2, col. 4, line 45 – col. 5, line 32).

Allowable Subject Matter

9. Claims 3, 4, 16, 17, 20, 21, 25 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

10. Applicants' arguments filed on 9/21/04 with respect to claims 1, 2, 11 and 12 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lilian Vo whose telephone number is 571-272-3774. The examiner can normally be reached on Monday - Thursday, 7:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Lilian Vo Examiner Art Unit 2127

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December 10, 2004

SUPERVISORY PAVENT EXCOUNT